

<110> INCYTE GENOMICS, INC.
 POLICKY, Jennifer L.
 TRIBOULEY, Catherine M.
 TANG, Y. Tom
 BAUGHN, Mariah R.
 GRAUL, Richard
 KHAN, Farrah A.
 NGUYEN, Dannie B.
 PATTERSON, Chandra
 LAL, Preeti
 AU-YOUNG, Janice
 YANG, Junming
 HAFALIA, April
 WALIA, Narinder K.
 DAS, Debopriya

<120> G-PROTEIN COUPLED RECEPTORS

<130> PI-0072 PCT

<140> To Be Assigned

<141> Herewith

<150> 60/193,051; 60/195,155; 60/199,084; 60/200,551; 60/202,278

<151> 2000-03-29; 2000-04-06; 2000-04-20; 2000-04-28; 2000-05-05

<160> 12

<170> PERL Program

<210> 1

<211> 346

<212> PRT

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 5628963CD1

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				20					25					30
Cys	Thr	Ile	Glu	Asn	Phe	Lys	Arg	Glu	Phe	Phe	Pro	Ile	Val	Tyr
				35					40					45
Leu	Ile	Ile	Phe	Phe	Trp	Gly	Val	Leu	Gly	Asn	Gly	Leu	Ser	Ile
				50					55					60
Tyr	Val	Phe	Leu	Gln	Pro	Tyr	Lys	Lys	Ser	Thr	Ser	Val	Asn	Val
				65					70					75
Phe	Met	Leu	Asn	Leu	Ala	Ile	Ser	Asp	Leu	Leu	Phe	Ile	Ser	Thr
				80					85					90
Leu	Pro	Phe	Arg	Ala	Asp	Tyr	Tyr	Leu	Arg	Gly	Ser	Asn	Trp	Ile
				95					100					105
Phe	Gly	Asp	Leu	Ala	Cys	Arg	Ile	Met	Ser	Tyr	Ser	Leu	Tyr	Val
				110					115					120
Asn	Met	Tyr	Ser	Ser	Ile	Tyr	Phe	Leu	Thr	Val	Leu	Ser	Val	Val
				125					130					135
Arg	Phe	Leu	Ala	Met	Val	His	Pro	Phe	Arg	Leu	Leu	His	Val	Thr
				140					145					150
Ser	Ile	Arg	Ser	Ala	Trp	Ile	Leu	Cys	Gly	Ile	Ile	Trp	Ile	Leu
				155					160					165
Ile	Met	Ala	Ser	Ser	Ile	Met	Leu	Leu	Asp	Ser	Gly	Ser	Glu	Gln
				170					175					180
Asn	Gly	Ser	Val	Thr	Ser	Cys	Leu	Glu	Leu	Asn	Leu	Tyr	Lys	Ile
				185					190					195
Ala	Lys	Leu	Gln	Thr	Met	Asn	Tyr	Ile	Ala	Leu	Val	Val	Gly	Cys
				200					205					210

Leu	Leu	Pro	Phe	Phe	Thr	Leu	Ser	Ile	Cys	Tyr	Leu	Leu	Ile	Ile
				215					220					225
Arg	Val	Leu	Leu	Lys	Val	Glu	Val	Pro	Glu	Ser	Gly	Leu	Arg	Val
				230					235					240
Ser	His	Arg	Lys	Ala	Leu	Thr	Thr	Ile	Ile	Ile	Thr	Leu	Ile	Ile
				245					250					255
Phe	Phe	Leu	Cys	Phe	Leu	Pro	Tyr	His	Thr	Leu	Arg	Thr	Val	His
				260					265					270
Leu	Thr	Thr	Trp	Lys	Val	Gly	Leu	Cys	Lys	Asp	Arg	Leu	His	Lys
				275					280					285
Ala	Leu	Val	Ile	Thr	Leu	Ala	Leu	Ala	Ala	Ala	Asn	Ala	Cys	Phe
				290					295					300
Asn	Pro	Leu	Leu	Tyr	Tyr	Phe	Ala	Gly	Glu	Asn	Phe	Lys	Asp	Arg
				305					310					315
Leu	Lys	Ser	Ala	Leu	Arg	Lys	Gly	His	Pro	Gln	Lys	Ala	Lys	Thr
				320					325					330
Lys	Cys	Val	Phe	Pro	Val	Ser	Val	Trp	Leu	Arg	Lys	Glu	Thr	Arg
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Val														

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<212> PRT

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1453124CD1

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Asp	Gly	His	Gly	Gly	Phe	Leu	Gly	Lys	Asn	Asp	Gly	Ile	Lys	Thr
				20					25					30
Lys	Lys	Glu	Leu	Ile	Val	Asn	Lys	Lys	Lys	His	Leu	Gly	Pro	Val
				35					40					45
Glu	Glu	Tyr	Gln	Leu	Leu	Leu	Gln	Val	Thr	Tyr	Arg	Asp	Ser	Lys
				50					55					60
Glu	Lys	Arg	Asp	Leu	Arg	Asn	Phe	Leu	Lys	Leu	Leu	Lys	Pro	Pro
				65					70					75
Leu	Leu	Trp	Ser	His	Gly	Leu	Ile	Arg	Ile	Ile	Arg	Ala	Lys	Ala
				80					85					90
Thr	Thr	Asp	Cys	Asn	Ser	Leu	Asn	Gly	Val	Leu	Gln	Cys	Thr	Cys
				95					100					105
Glu	Asp	Ser	Tyr	Thr	Trp	Phe	Pro	Pro	Ser	Cys	Leu	Asp	Pro	Gln
				110					115					120
Asn	Cys	Tyr	Leu	His	Thr	Ala	Gly	Ala	Leu	Pro	Ser	Cys	Glu	Cys
				125					130					135
His	Leu	Asn	Asn	Leu	Ser	Gln	Ser	Val	Asn	Phe	Cys	Glu	Arg	Thr
				140					145					150
Lys	Ile	Trp	Gly	Thr	Phe	Lys	Ile	Asn	Glu	Arg	Phe	Thr	Asn	Asp
				155					160					165
Leu	Leu	Asn	Ser	Ser	Ser	Ala	Ile	Tyr	Ser	Lys	Tyr	Ala	Asn	Gly
				170					175					180
Ile	Glu	Ile	Gln	Leu	Lys	Lys	Ala	Tyr	Glu	Arg	Ile	Lys	Gly	Phe
				185					190					195
Glu	Ser	Val	Gln	Val	Thr	Gln	Phe	Arg	Asn	Gly	Ser	Ile	Val	Ala
				200					205					210
Gly	Tyr	Glu	Val	Val	Gly	Ser	Ser	Ser	Ala	Ser	Glu	Leu	Leu	Ser
				215					220					225
Ala	Ile	Glu	His	Val	Ala	Glu	Lys	Ala	Lys	Thr	Ala	Leu	His	Lys
				230					235					240
Leu	Phe	Pro	Leu	Glu	Asp	Gly	Ser	Phe	Arg	Val	Phe	Gly	Lys	Ala
				245					250					255
Gln	Cys	Asn	Asp	Ile	Val	Phe	Gly	Phe	Gly	Ser	Lys	Asp	Asp	Glu
				260					265					270

Tyr	Thr	Leu	Pro	Cys	Ser	Ser	Gly	Tyr	Arg	Gly	Asn	Ile	Thr	Ala
				275					280					285
Lys	Cys	Glu	Ser	Ser	Gly	Trp	Gln	Val	Ile	Arg	Glu	Thr	Cys	Val
				290					295					300
Leu	Ser	Leu	Leu	Glu	Glu	Leu	Asn	Lys	Asn	Phe	Ser	Met	Ile	Val
				305					310					315
Gly	Asn	Ala	Thr	Glu	Ala	Ala	Val	Ser	Ser	Phe	Val	Gln	Asn	Leu
				320					325					330
Ser	Val	Ile	Ile	Arg	Gln	Asn	Pro	Ser	Thr	Thr	Val	Gly	Asn	Leu
				335					340					345
Ala	Ser	Val	Val	Ser	Ile	Leu	Ser	Asn	Ile	Ser	Ser	Leu	Ser	Leu
				350					355					360
Ala	Ser	His	Phe	Arg	Val	Ser	Asn	Ser	Thr	Met	Glu	Asp	Val	Ile
				365					370					375
Ser	Ile	Ala	Asp	Asn	Ile	Leu	Asn	Ser	Ala	Ser	Val	Thr	Asn	Trp
				380					385					390
Thr	Val	Leu	Leu	Arg	Glu	Glu	Lys	Tyr	Ala	Ser	Ser	Arg	Leu	Leu
				395					400					405
Glu	Thr	Leu	Glu	Asn	Ile	Ser	Thr	Leu	Val	Pro	Pro	Thr	Ala	Leu
				410					415					420
Pro	Leu	Asn	Phe	Ser	Arg	Lys	Phe	Ile	Asp	Trp	Lys	Gly	Ile	Pro
				425					430					435
Val	Asn	Lys	Ser	Gln	Leu	Lys	Arg	Gly	Tyr	Ser	Tyr	Gln	Ile	Lys
				440					445					450
Met	Cys	Pro	Gln	Asn	Thr	Ser	Ile	Pro	Ile	Arg	Gly	Arg	Val	Leu
				455					460					465
Ile	Gly	Ser	Asp	Gln	Phe	Gln	Arg	Ser	Leu	Pro	Glu	Thr	Ile	Ile
				470					475					480
Ser	Met	Ala	Ser	Leu	Thr	Leu	Gly	Asn	Ile	Leu	Pro	Val	Ser	Lys
				485					490					495
Asn	Gly	Asn	Ala	Gln	Val	Asn	Gly	Pro	Val	Ile	Ser	Thr	Val	Ile
				500					505					510
Gln	Asn	Tyr	Ser	Ile	Asn	Glu	Val	Phe	Leu	Phe	Phe	Ser	Lys	Ile
				515					520					525
Glu	Ser	Asn	Leu	Ser	Gln	Pro	His	Cys	Val	Phe	Trp	Asp	Phe	Ser
				530					535					540
His	Leu	Gln	Trp	Asn	Asp	Ala	Gly	Cys	His	Leu	Val	Asn	Glu	Thr
				545					550					555
Gln	Asp	Ile	Val	Thr	Cys	Gln	Cys	Thr	His	Leu	Thr	Ser	Phe	Ser
				560					565					570
Ile	Leu	Met	Ser	Pro	Phe	Val	Pro	Ser	Thr	Ile	Phe	Pro	Val	Val
				575					580					585
Lys	Trp	Ile	Thr	Tyr	Val	Gly	Leu	Gly	Ile	Ser	Ile	Gly	Ser	Leu
				590					595					600
Ile	Leu	Cys	Leu	Ile	Ile	Glu	Ala	Leu	Phe	Trp	Lys	Gln	Ile	Lys
				605					610					615
Lys	Ser	Gln	Thr	Ser	His	Thr	Arg	Arg	Ile	Cys	Met	Val	Asn	Ile
				620					625					630
Ala	Leu	Ser	Leu	Leu	Ile	Ala	Asp	Val	Trp	Phe	Ile	Val	Gly	Ala
				635					640					645
Thr	Val	Asp	Thr	Thr	Val	Asn	Pro	Ser	Gly	Val	Cys	Thr	Ala	Ala
				650					655					660
Val	Phe	Phe	Thr	His	Phe	Phe	Tyr	Leu	Ser	Leu	Phe	Phe	Trp	Met
				665					670					675
Leu	Met	Leu	Gly	Ile	Leu	Leu	Ala	Tyr	Arg	Ile	Ile	Leu	Val	Phe
				680					685					690
His	His	Met	Ala	Gln	His	Leu	Met	Met	Ala	Val	Gly	Phe	Cys	Leu
				695					700					705
Gly	Tyr	Gly	Cys	Pro	Leu	Ile	Ile	Ser	Val	Ile	Thr	Ile	Ala	Val
				710					715					720
Thr	Gln	Pro	Ser	Asn	Thr	Tyr	Lys	Arg	Lys	Asp	Val	Cys	Trp	Leu
				725					730					735
Asn	Trp	Ser	Asn	Gly	Ser	Lys	Pro	Leu	Leu	Ala	Phe	Val	Val	Pro
				740					745					750
Ala	Leu	Ala	Ile	Val	Ala	Val	Asn	Phe	Val	Val	Val	Leu	Leu	Val
				755					760					765
Leu	Thr	Lys	Leu	Trp	Arg	Pro	Thr	Val	Gly	Glu	Arg	Leu	Ser	Arg

Asp	Asp	Lys	Ala	Thr	Ile	Ile	Arg	Val	Gly	Lys	Ser	Leu	Leu	Ile	770	775	780
				785					790						795		
Leu	Thr	Pro	Leu	Leu	Gly	Leu	Thr	Trp	Gly	Phe	Gly	Ile	Gly	Thr	800	805	810
Ile	Val	Asp	Ser	Gln	Asn	Leu	Ala	Trp	His	Val	Ile	Phe	Ala	Leu	815	820	825
Leu	Asn	Ala	Phe	Gln	Gly	Phe	Phe	Ile	Leu	Cys	Phe	Gly	Ile	Leu	830	835	840
Leu	Asp	Ser	Lys	Leu	Arg	Gln	Leu	Leu	Phe	Asn	Lys	Leu	Ser	Ala	845	850	855
Leu	Ser	Ser	Trp	Lys	Gln	Thr	Glu	Lys	Gln	Asn	Ser	Ser	Asp	Leu	860	865	870
Ser	Ala	Lys	Pro	Lys	Phe	Ser	Lys	Pro	Phe	Asn	Pro	Leu	Gln	Asn	875	880	885
Lys	Gly	His	Tyr	Ala	Phe	Ser	His	Thr	Gly	Asp	Ser	Ser	Asp	Asn	890	895	900
Ile	Met	Leu	Thr	Gln	Phe	Val	Ser	Asn	Glu						905	910	

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<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 3226980CD1

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Val	Pro	Glu	Val	Gly	Leu	Arg	Asp	Val	Ala	Ser	Glu	Ser	Val	Ala	35	40	45	50
Leu	Phe	Phe	Met	Leu	Leu	Leu	Asp	Leu	Thr	Ala	Val	Ala	Gly	Asn	50	55	60	65
Ala	Ala	Val	Met	Ala	Val	Ile	Ala	Lys	Thr	Pro	Ala	Leu	Arg	Lys	65	70	75	80
Phe	Val	Phe	Val	Phe	His	Leu	Cys	Leu	Val	Asp	Leu	Leu	Ala	Ala	80	85	90	95
Leu	Thr	Leu	Met	Pro	Leu	Ala	Met	Leu	Ser	Ser	Ser	Ala	Leu	Phe	95	100	105	110
Asp	His	Ala	Leu	Phe	Gly	Glu	Val	Ala	Cys	Arg	Leu	Tyr	Leu	Phe	110	115	120	125
Leu	Ser	Val	Cys	Phe	Val	Ser	Leu	Ala	Ile	Leu	Ser	Val	Ser	Ala	125	130	135	140
Ile	Asn	Val	Glu	Arg	Tyr	Tyr	Tyr	Val	Val	His	Pro	Met	Arg	Tyr	140	145	150	155
Glu	Val	Arg	Met	Thr	Leu	Gly	Leu	Val	Ala	Ser	Val	Leu	Val	Gly	155	160	165	170
Val	Trp	Val	Lys	Ala	Leu	Ala	Met	Ala	Ser	Val	Pro	Val	Leu	Gly	170	175	180	185
Arg	Val	Ser	Trp	Glu	Glu	Gly	Ala	Pro	Ser	Val	Pro	Pro	Gly	Cys	185	190	195	200
Ser	Leu	Gln	Trp	Ser	His	Ser	Ala	Tyr	Cys	Gln	Leu	Phe	Val	Val	200	205	210	215
Val	Phe	Ala	Val	Leu	Tyr	Phe	Leu	Leu	Pro	Leu	Leu	Leu	Ile	Leu	215	220	225	230
Val	Val	Tyr	Cys	Ser	Met	Phe	Arg	Val	Ala	Arg	Val	Ala	Ala	Met	230	235	240	245
Gln	His	Gly	Pro	Leu	Pro	Thr	Trp	Met	Glu	Thr	Pro	Arg	Gln	Arg	245	250	255	260
Ser	Glu	Ser	Leu	Ser	Ser	Arg	Ser	Thr	Met	Val	Thr	Ser	Ser	Gly	260	265	270	275
Ala	Pro	Gln	Thr	Thr	Pro	His	Arg	Thr	Phe	Gly	Gly	Gly	Lys	Ala	275	280	285	290

Ala Val Val Leu	275	Ala Val Gly Gly	280	Phe Leu Leu Cys	285
Leu Pro Tyr Phe	290	Val Val Val Thr	295	Val Ala Leu Ser	300
Pro Ile Ser Thr	305	Gln Val Glu Ser	310	Val Val Thr Trp	315
Tyr Phe Cys Phe	320	Thr Ser Asn Pro	325	Phe Tyr Gly Cys	330
Arg Gln Ile Arg	335	Gly Glu Leu Ser	340	Phe Val Cys Phe	345
Lys Pro Ala Pro	350	Glu Glu Leu Arg	355	Leu Pro Ser Arg	360
Ser Ile Glu Glu	365	Asn Phe Leu Gln	370	Leu Gln Gly Thr	375
Pro Ser Glu Ser	380	Trp Val Ser Arg	385	Pro Ser Pro Lys	390
Glu Pro Pro Ala	395	Val Asp Phe Arg	400	Pro Gly Gln Ile	405
Glu Thr Ser Glu	410	Phe Leu Glu Gln	415	Leu Thr Ser Asp	420
Met Ser Asp Ser	425	Tyr Leu Arg Pro	430	Ala Ser Pro Arg	435
Ser	440		445	Leu Glu	450

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<213> Homo sapiens

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<223> Incyte ID No: 269898CD1

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Ile Arg Val Gly	20	Gln Ala Gly Ala	25	Arg Val Ala Thr	30
Ser Pro Val Leu	35	Val Asp Ile Arg	40	Glu Val Thr Cys	45
Cys Leu Glu Leu	50	Leu Thr Glu Pro	55	Leu Ser Ile Asp	60
Ser Phe Cys Gln	65	Ala Cys Ile Thr	70	Pro Asn Gly Arg	75
Ile Gly Gln Glu	80	Gly Glu Arg Ser	85	Cys Pro Val Cys	90
Tyr Gln Pro Gly	95	Asn Leu Arg Pro	100	Asn Arg His Leu	105
Val Arg Arg Leu	110	Arg Glu Val Val	115	Leu Gly Pro Gly	120
Lys Ala Val Leu	125	Cys Ala Asp His	130	Gly Glu Lys Leu	135
Cys Gln Glu Asp	140	Gly Lys Val Ile	145	Cys Trp Leu Cys	150
Gln Glu His Arg	155	Gly His His Thr	160	Phe Leu Val Glu	165
Gln Glu Tyr Gln	170	Lys Phe Gln Glu	175	Ser Leu Lys Lys	180
Glu Glu Gln Glu	185	Ala Glu Lys Leu	190	Thr Phe Ile Arg	195
Lys Thr Ser Trp	200	Lys Ala Arg Glu	205	Thr Phe Ser Glu	210
Gly Gln Glu Ser	215	Trp Gln Ser Thr	220	Asn Ala Arg Glu	225
Ile Pro Gly Leu		Glu Ala Ala His		Phe Trp Ile Ala	

Cys	Ala	Met	Tyr	230	Val	Ala	Leu	Val	235	Gly	Asn	Ala	Ala	Leu	Ile	240
				245					250							255
Leu	Val	Ile	Ala	Met	Asp	Asn	Ala	Leu	265	His	Ala	Pro	Met	Tyr	Leu	270
				260					280							285
Phe	Leu	Cys	Leu	Leu	Ser	Leu	Thr	Asp	295	Leu	Ala	Leu	Ser	Ser	Thr	300
				275					310							315
Thr	Val	Pro	Lys	Met	Leu	Ala	Ile	Leu	325	Trp	Leu	His	Ala	Gly	Glu	330
				290					330							335
Ile	Ser	Phe	Gly	Gly	Cys	Leu	Ala	Gln	340	Met	Phe	Cys	Val	His	Ser	345
				305					355							360
Ile	Tyr	Ala	Leu	Glu	Ser	Ser	Ile	Leu	370	Leu	Ala	Met	Ala	Phe	Asp	375
				320					385							390
Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	400	Arg	Tyr	Thr	Thr	Ile	Leu	405
				335					415							420
Asn	His	Ala	Val	Ile	Gly	Arg	Ile	Gly	430	Phe	Val	Gly	Leu	Phe	Arg	435
				350					445							450
Ser	Val	Ala	Ile	Val	Ser	Pro	Phe	Ile	460	Phe	Leu	Leu	Arg	Arg	Leu	465
				365					475							480
Pro	Tyr	Cys	Gly	His	Arg	Val	Met	Thr	490	His	Thr	Tyr	Cys	Glu	His	495
				380					505							510
Met	Gly	Ile	Ala	Arg	Leu	Ala	Cys	Ala	520	Asn	Ile	Thr	Val	Asn	Ile	525
				395												530
Val	Tyr	Gly	Leu	Thr	Val	Ala	Leu	Leu		Ala	Met	Gly	Leu	Asp	Ser	
				410												
Ile	Leu	Ile	Ala	Ile	Ser	Tyr	Gly	Phe		Ile	Leu	His	Ala	Val	Phe	
				425												
His	Leu	Pro	Ser	His	Asp	Ala	Gln	His		Lys	Ala	Leu	Ser	Thr	Cys	
				440												
Gly	Ser	His	Ile	Gly	Ile	Ile	Leu	Val		Phe	Tyr	Ile	Pro	Ala	Phe	
				455												
Phe	Ser	Phe	Leu	Thr	His	Arg	Phe	Gly		His	His	Glu	Val	Pro	Lys	
				470												
His	Val	His	Ile	Phe	Leu	Ala	Asn	Leu		Tyr	Val	Leu	Val	Pro	Pro	
				485												
Val	Leu	Asn	Pro	Ile	Leu	Tyr	Gly	Ala		Arg	Thr	Lys	Glu	Ile	Arg	
				500												
Ser	Arg	Leu	Leu	Lys	Leu	Leu	His	Leu		Gly	Lys	Thr	Ser	Ile		
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<210> 5

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4585651CD1

<400> 5

Met	Phe	Ile	Gly	Val	Leu	Asp	Leu	Phe	Phe	Ile	Ile	Leu	Ser	Tyr		
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Ile	Phe	Ile	Leu	Gln	Ala	Val	Leu	Gln	Leu	Ser	Ser	Gln	Glu	Ala		
				20					25					30		
Arg	Tyr	Lys	Ala	Phe	Gly	Thr	Cys	Val	Ser	His	Ile	Gly	Ala	Ile		
				35					40					45		
Leu	Ala	Phe	Tyr	Thr	Pro	Ser	Val	Ile	Ser	Ser	Val	Met	His	Arg		
				50					55					60		
Val	Ala	Arg	Cys	Ala	Ala	Pro	His	Val	His	Ile	Leu	Leu	Ala	Asn		
				65					70					75		
Phe	Tyr	Leu	Leu	Phe	Pro	Pro	Met	Val	Asn	Pro	Ile	Ile	Tyr	Gly		
				80					85					90		
Val	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Ser	Leu	Gly	Ser	Ile	Pro	Glu		
				95					100					105		
Lys	Gly	Cys	Val	Asn	Arg	Glu										
				110												

<210> 6
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 <223> Incyte ID No: 7472063CD1

<400> 6
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 20 25 30
 Thr Gly Asn Ile Leu Ile Val Val Ser Ile His Thr Glu Thr Cys
 35 40 45
 Leu Cys Thr Ser Met Tyr Tyr Phe Leu Gly Ser Leu Ser Gly Ile
 50 55 60
 Glu Ile Cys Tyr Thr Ala Val Val Val Pro His Ile Leu Ala Asn
 65 70 75
 Thr Leu Thr Val Arg Glu Asp Ile Thr Leu Leu Gly Cys Ala Thr
 80 85 90
 Gln Met Ala Phe Phe Ile Ala Leu Gly Ser Ala Asp Cys Phe Leu
 95 100 105
 Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro
 110 115 120
 Leu Gln Tyr Pro Leu Leu Met Thr Leu Thr Leu Cys Val His Leu
 125 130 135
 Val Val Ala Ser Val Ile Ser Gly Leu Phe Leu Ser Leu Gln Leu
 140 145 150
 Val Ala Phe Ile Phe Ser Leu Pro Phe Cys Gln Ala Gln Gly Ile
 155 160 165
 Glu His Phe Phe Cys Asp Val Pro Pro Val Met His Val Val Cys
 170 175 180
 Ala Gln Ser His Ile His Glu Gln Ser Val Leu Val Ala Ala Ile
 185 190 195
 Leu Ala Ile Ala Val Pro Phe Phe Leu Ile Thr Thr Ser Tyr Thr
 200 205 210
 Phe Ile Val Ala Ala Leu Leu Lys Ile His Ser Ala Ala Gly Arg
 215 220 225
 His Arg Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Leu
 230 235 240
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